



## BIOLOGY NMDCAT EARLIER PREP

### PMC UNIT WISE TEST Unit-9

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**03418729745(WhatsApp Groups)**

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#### TOPIC:

#### ✓ Support and Movement

- Q.1 All of the following are functions of endoskeleton in humans except:**  
A. Protection to critical internal organs      B. Mineral homeostasis  
C. Blood cell production      D. Thermoregulation
- Q.2 It is the most rigid form of connective tissue found in humans:**  
A. Bone      B. Tendon  
C. Cartilage      D. Blood
- Q.3 All of the following are the features of spongy bone except:**  
A. Light in weight      B. Rich blood supply  
C. Provides attachment sites for muscles      D. Highly porous
- Q.4 A flexible, elastic, non-living matrix called collagen is secreted by \_\_\_\_\_ during cartilage tissue formation.**  
A. Stem cells      B. Osteoblasts  
C. Chondrocytes      D. Osteocytes
- Q.5 All of the following functions are performed by the cartilage except:**  
A. Attachment of muscles with bones      B. Covers ends of bones in joints  
C. Formation of external pinnae of ear      D. Covers glottis during swallowing
- Q.6 Total number of cervical and thoracic vertebrae in human vertebral column is:**  
A. 7      B. 14  
C. 19      D. 33
- Q.7 These cells are equipped with phagocytic-like mechanism and involved in bone resorption and breakdown processes:**  
A. Osteocytes      B. Osteogenic cells  
C. Osteoclasts      D. Osteoblasts
- Q.8 Axial skeleton includes all except:**  
A. Skull      B. Sternum  
C. Clavicle      D. Ribs
- Q.9 Cranium is made up of:**  
A. 2 paired and 4 unpaired bones      B. 2 unpaired and 4 paired  
C. 2 paired and 2 unpaired      D. 4 paired and 4 unpaired
- Q.10 Lacrimal bone is:**  
A. Paired bone of cranium      B. Paired bone of face  
C. Unpaired bone of cranium      D. Unpaired bone of face
- Q.11 Four curvatures in vertebral column are helpful in providing:**  
A. More protection to spinal cord      B. More strength  
C. Attachment site for limbs      D. More CSF production
- Q.12 Vertebral column starts with which vertebra:**  
A. Axis      B. Thoracic  
C. Sacral      D. Atlas
- Q.13 It is an injury to a ligament:**  
A. Fracture      B. Dislocation  
C. Sprain      D. Osteoporosis
- Q.14 It is the chest bone in axial skeleton of human body:**  
A. Hyoid      B. Sternum  
C. Maxilla      D. Ribs
- Q.15 Number of bones in appendicular skeleton are:**  
A. 126      B. 80



- C. 206  
D. 30
- Q.16 In children, rickets is characterized by all except:**  
A. Bowed legs  
B. Excess calcium in body  
C. Deformed pelvis  
D. Deficiency of vitamin 'D'
- Q.17 Which of the following secretes a watery fluid that lubricates and cushions joints?**  
A. Tendon  
B. Ligament  
C. Synovium  
D. Cartilage
- Q.18 The joint which allows only rotational movement is:**  
A. Hinge joint  
B. Pivot joint  
C. Saddle joint  
D. Multistage joint
- Q.19 These joints are held together by short fibers embedded in connective tissue:**  
A. Fibrous joints  
B. Hinge joints  
C. Synovial joints  
D. Ball and socket joints
- Q.20 Proximal end of which bone is involved in formation of hip joint?**  
A. Tibia  
B. Femur  
C. Fibula  
D. Humerus
- Q.21 The shoulder and hip joints are example of:**  
A. Gliding  
B. Pivot  
C. Saddle  
D. Ball and socket
- Q.22 \_\_\_\_\_ develop in people who have high level of uric acid in their blood.**  
A. Osteoarthritis  
B. Spondylosis  
C. Gouty arthritis  
D. Sprain
- Q.23 During soft callus formation, \_\_\_\_\_ are involved in production of collagen fibres that connect the ends of broken bones.**  
A. Osteoblasts  
B. Myeloblasts  
C. Fibroblasts  
D. Osteoclasts
- Q.24 The functional partner of bone is:**  
A. Tendon  
B. Ligament  
C. Skeletal muscle  
D. Fasciae
- Q.25 Muscles are the specialized type of tissues having \_\_\_\_\_ origin.**  
A. Ectodermal  
B. Endodermal  
C. Mesodermal  
D. Epidermal
- Q.26 Non-polarizing region of sarcomere is called:**  
A. I-band  
B. A-band  
C. M-line  
D. H-zone
- Q.27 Color of red fibers of muscles is due to the presence of:**  
A. Glycogen  
B. Hemoglobin  
C. Oxyhemoglobin  
D. Myoglobin
- Q.28 These muscles are irregularly striped and involuntary:**  
A. Skeletal muscles  
B. Gut smooth muscles  
C. Cardiac muscles  
D. Vascular smooth muscles
- Q.29 Stimulation of a muscle fibre by a motor neuron occurs at:**  
A. Neuromuscular junction  
B. Myofibril  
C. Transverse tubules  
D. Sarcoplasmic reticulum
- Q.30 Complete immobilization of muscle leads to:**  
A. Muscle atrophy  
B. Muscle hyperplasia  
C. Muscle hypertrophy  
D. Muscle tetany
- Q.31 After death, the body becomes stiff due to deficit of ATP. This condition is called:**  
A. Spasm  
B. Rigor mortis  
C. Tetanus  
D. Spastic paralysis
- Q.32 Origin of skeletal muscle is attached to:**  
A. Immoveable bone through tendon  
B. Immoveable bone through ligament  
C. Moveable bone through tendon  
D. Moveable bone through ligament
- Q.33 With the routine exercise, all of the following changes occur in skeletal muscle except:**  
A. Increase in number of mitochondria  
B. Increase in number of muscle fibers  
C. Increase in myoglobin  
D. Increase in blood capillaries
- Q.34 Function of the skeletal muscles is:**  
A. Moves the skeleton  
B. Pumps blood  
C. Vasodilation  
D. Propel food through GIT



A. Myofibrils  
B. Thick filaments  
C. Thin filaments  
D. Actin molecules



- Q.37** When a sarcomere contracts, then all of the following can occur except:
- A. I-band shortens  
B. A-band shortens  
C. Z-lines come closer  
D. H-zone disappears
- Q.38** T-tubule is the part of:
- A. Myofibril  
B. Neuron  
C. Endoplasmic reticulum  
D. Sarcolemma
- Q.39** Energy for muscles contraction comes from ATP. The supply of ATP is normally maintained by:
- A. Glucose  
B. Glycogen  
C. Starch  
D. Creatine phosphate
- Q.40** The H-zone in the skeletal muscles fibre is due to:
- A. The absence of myofibrils in the central portion of A-band  
B. The central gap between actin filaments extending through myosin filaments in the A-band  
C. The central gap between myosin filaments in the A-band  
D. Extension of myosin filaments in the central portion of the A-band
- Q.41** I-band contains:
- A. Actin filaments only  
B. Mainly actin partly myosin  
C. Myosin filaments only  
D. Mainly myosin partly actin
- Q.42** Sarcolemma invagination and adjacent sarcoplasmic reticulum membranes are collectively called as:
- A. T-tubule  
B. T-system  
C. Triad  
D.  $\text{Ca}^{+2}$  sacs
- Q.43** It is a complex of three polypeptide chains:
- A. Actin  
B. Troponin  
C. Myosin  
D. Tropomyosin
- Q.44** A motor unit is developed by:
- A. Single motor axon innervating multiple muscle bundles  
B. Multiple motor axons innervating single muscle bundle  
C. Single motor axon innervating multiple muscle fibers  
D. Multiple motor axons innervating multiple muscle fibers
- Q.45** The boundary of each sarcomere is defined by a line called Z-line, which is actually the part of:
- A. A-band  
B. I-band  
C. H-zone  
D. M-line
- Q.46** These are most primitive type of muscles:
- A. Cardiac muscles  
B. Smooth muscles  
C. Skeletal muscles  
D. Striated muscles
- Q.47** Which of the following is correctly matched?

	Feature	Bone	Cartilage
A.	Blood vessels	✗	✓
B.	Living Cells	✓	✗
C.	Collagen	✓	✓
D.	Calcium phosphate	✓	✓

- Q.48** A myosin molecule has \_\_\_\_\_ polypeptide chain/s in its tail which terminates in \_\_\_\_\_ globular heads.
- A. 2, 2  
B. 4, 4  
C. 4, 2  
D. 1, 2
- Q.49** Put the following statement in proper order to describe muscle contraction:
1. Signals sent by CNS via motor neuron
  2. Generation of action potential in the sarcolemma
  3. Release of  $\text{Ca}^{+2}$  from sarcoplasmic reticulum
  4. The neurotransmitter acetylcholine released
  5. Sarcomere shortens
- A. 1→2→4→3→5  
B. 1→4→3→2→5  
C. 1→4→2→3→5  
D. 5→4→3→2→1
- Q.50** It typically begins gradually with stiffness of jaws and neck muscles and progresses to spasm of trunk and limb muscles:
- A. Muscle fatigue  
B. Tetany  
C. Muscle cramp  
D. Tetanus



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# Bio T-9 key

	A	B	C	D		A	B	C	D		A	B	C	D		A	B	C	D	
1	○	○	○	●	16	○	●	○	○	31	○	●	○	○	46	○	●	○	○	
2	●	○	○	○	17	○	○	●	○	32	●	○	○	○	47	○	○	●	○	
3	○	○	●	○	18	○	●	○	○	33	○	●	○	○	48	●	○	○	○	
4	○	○	●	○	19	●	○	○	○	34	●	○	○	○	49	○	○	●	○	
5	●	○	○	○	20	○	●	○	○	35	●	○	○	○	50	○	○	○	●	
6	○	○	●	○	21	○	○	○	●	36	●	○	○	○	51	○	○	○	○	
7	○	○	●	○	22	○	○	●	○	37	○	●	○	○	52	○	○	○	○	
8	○	○	●	○	23	○	○	●	○	38	○	○	○	●	53	○	○	○	○	
9	●	○	○	○	24	○	○	●	○	39	●	○	○	○	54	○	○	○	○	
10	○	●	○	○	25	○	○	●	○	40	○	●	○	○	55	○	○	○	○	
11	○	●	○	○	26	●	○	○	○	41	●	○	○	○	56	○	○	○	○	
12	○	○	○	●	27	○	○	○	●	42	○	○	●	○	57	○	○	○	○	
13	○	○	●	○	28	○	○	●	○	43	○	●	○	○	58	○	○	○	○	
14	○	●	○	○	29	●	○	○	○	44	○	○	●	○	59	○	○	○	○	
15	●	○	○	○	30	●	○	○	○	45	○	●	○	○	60	○	○	○	○	

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Regards.Huzaiifa Saeed,Usama Sohail

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